

Number Correct: _____

Integer Addition – Round 1

Directions: Determine the sum of the integers, and write it in the column to the right.

1.	$8 + (-5)$	
2.	$10 + (-3)$	
3.	$2 + (-7)$	
4.	$4 + (-11)$	
5.	$-3 + (-9)$	
6.	$-12 + (-7)$	
7.	$-13 + 5$	
8.	$-4 + 9$	
9.	$7 + (-7)$	
10.	$-13 + 13$	
11.	$14 + (-20)$	
12.	$6 + (-4)$	
13.	$10 + (-7)$	
14.	$-16 + 9$	
15.	$-10 + 34$	
16.	$-20 + (-5)$	
17.	$-18 + 15$	

18.	$-38 + 25$	
19.	$-19 + (-11)$	
20.	$2 + (-7)$	
21.	$-23 + (-23)$	
22.	$45 + (-32)$	
23.	$16 + (-24)$	
24.	$-28 + 13$	
25.	$-15 + 15$	
26.	$12 + (-19)$	
27.	$-24 + (-32)$	
28.	$-18 + (-18)$	
29.	$14 + (-26)$	
30.	$-7 + 8 + (-3)$	
31.	$2 + (-15) + 4$	
32.	$-8 + (-19) + (-11)$	
33.	$15 + (-12) + 7$	
34.	$-28 + 7 + (-7)$	

Number Correct: _____

Improvement: _____

Integer Addition – Round 2

Directions: Determine the sum of the integers, and write it in the column to the right.

1.	$5 + (-12)$	
2.	$10 + (-6)$	
3.	$-9 + (-13)$	
4.	$-12 + 17$	
5.	$-15 + 15$	
6.	$16 + (-25)$	
7.	$-12 + (-8)$	
8.	$-25 + (-29)$	
9.	$28 + (-12)$	
10.	$-19 + (-19)$	
11.	$-17 + 20$	
12.	$8 + (-18)$	
13.	$13 + (-15)$	
14.	$-10 + (-16)$	
15.	$35 + (-35)$	
16.	$9 + (-14)$	
17.	$-34 + (-27)$	

18.	$23 + (-31)$	
19.	$-26 + (-19)$	
20.	$16 + (-37)$	
21.	$-21 + 14$	
22.	$33 + (-8)$	
23.	$-31 + (-13)$	
24.	$-16 + 16$	
25.	$30 + (-43)$	
26.	$-22 + (-18)$	
27.	$-43 + 27$	
28.	$38 + (-19)$	
29.	$-13 + (-13)$	
30.	$5 + (-8) + (-3)$	
31.	$6 + (-11) + 14$	
32.	$-17 + 5 + 19$	
33.	$-16 + (-4) + (-7)$	
34.	$8 + (-24) + 12$	

Number Correct: _____

Integer Subtraction – Round 1

Directions: Determine the difference of the integers, and write it in the column to the right.

1.	$4 - 2$	
2.	$4 - 3$	
3.	$4 - 4$	
4.	$4 - 5$	
5.	$4 - 6$	
6.	$4 - 9$	
7.	$4 - 10$	
8.	$4 - 20$	
9.	$4 - 80$	
10.	$4 - 100$	
11.	$4 - (-1)$	
12.	$4 - (-2)$	
13.	$4 - (-3)$	
14.	$4 - (-7)$	
15.	$4 - (-17)$	
16.	$4 - (-27)$	
17.	$4 - (-127)$	
18.	$14 - (-6)$	
19.	$23 - (-8)$	
20.	$8 - (-23)$	
21.	$51 - (-3)$	
22.	$48 - (-5)$	

23.	$(-6) - 5$	
24.	$(-6) - 7$	
25.	$(-6) - 9$	
26.	$(-14) - 9$	
27.	$(-25) - 9$	
28.	$(-12) - 12$	
29.	$(-26) - 26$	
30.	$(-13) - 21$	
31.	$(-25) - 75$	
32.	$(-411) - 811$	
33.	$(-234) - 543$	
34.	$(-3) - (-1)$	
35.	$(-3) - (-2)$	
36.	$(-3) - (-3)$	
37.	$(-3) - (-4)$	
38.	$(-3) - (-8)$	
39.	$(-30) - (-45)$	
40.	$(-27) - (-13)$	
41.	$(-13) - (-27)$	
42.	$(-4) - (-3)$	
43.	$(-3) - (-4)$	
44.	$(-1,066) - (-34)$	

Number Correct: _____

Improvement: _____

Integer Subtraction – Round 2

Directions: Determine the difference of the integers, and write it in the column to the right.

1.	$3 - 2$	
2.	$3 - 3$	
3.	$3 - 4$	
4.	$3 - 5$	
5.	$3 - 6$	
6.	$3 - 9$	
7.	$3 - 10$	
8.	$3 - 20$	
9.	$3 - 80$	
10.	$3 - 100$	
11.	$3 - (-1)$	
12.	$3 - (-2)$	
13.	$3 - (-3)$	
14.	$3 - (-7)$	
15.	$3 - (-17)$	
16.	$3 - (-27)$	
17.	$3 - (-127)$	
18.	$13 - (-6)$	
19.	$24 - (-8)$	
20.	$5 - (-23)$	
21.	$61 - (-3)$	
22.	$58 - (-5)$	

23.	$(-8) - 5$	
24.	$(-8) - 7$	
25.	$(-8) - 9$	
26.	$(-15) - 9$	
27.	$(-35) - 9$	
28.	$(-22) - 22$	
29.	$(-27) - 27$	
30.	$(-14) - 21$	
31.	$(-22) - 72$	
32.	$(-311) - 611$	
33.	$(-345) - 654$	
34.	$(-2) - (-1)$	
35.	$(-2) - (-2)$	
36.	$(-2) - (-3)$	
37.	$(-2) - (-4)$	
38.	$(-2) - (-8)$	
39.	$(-20) - (-45)$	
40.	$(-24) - (-13)$	
41.	$(-13) - (-24)$	
42.	$(-5) - (-3)$	
43.	$(-3) - (-5)$	
44.	$(-1,034) - (-31)$	

Number Correct: _____

Integer Multiplication – Round 1

Directions: Determine the product of the integers, and write it in the column to the right.

1.	$-2 \bullet -8$	
2.	$-4 \bullet 3$	
3.	$5 \bullet -7$	
4.	$1 \bullet -1$	
5.	$-6 \bullet 9$	
6.	$-2 \bullet -7$	
7.	$8 \bullet -3$	
8.	$0 \bullet -9$	
9.	$12 \bullet -5$	
10.	$-4 \bullet 2$	
11.	$-1 \bullet -6$	
12.	$10 \bullet -4$	
13.	$14 \bullet -3$	
14.	$-5 \bullet -13$	
15.	$-16 \bullet -8$	
16.	$18 \bullet -2$	
17.	$-15 \bullet 7$	
18.	$-19 \bullet 1$	
19.	$12 \bullet 12$	
20.	$9 \bullet -17$	
21.	$-8 \bullet -14$	
22.	$-7 \bullet 13$	

23.	$-14 \bullet -12$	
24.	$15 \bullet -13$	
25.	$16 \bullet -18$	
26.	$24 \bullet -17$	
27.	$-32 \bullet -21$	
28.	$19 \bullet -27$	
29.	$-39 \bullet 10$	
30.	$43 \bullet 22$	
31.	$11 \bullet -33$	
32.	$-29 \bullet -45$	
33.	$37 \bullet -44$	
34.	$-87 \bullet -100$	
35.	$92 \bullet -232$	
36.	$456 \bullet 87$	
37.	$-143 \bullet 76$	
38.	$439 \bullet -871$	
39.	$-286 \bullet -412$	
40.	$-971 \bullet 342$	
41.	$-773 \bullet -407$	
42.	$-820 \bullet 638$	
43.	$591 \bullet -734$	
44.	$491 \bullet -197$	

Number Correct: _____

Improvement: _____

Integer Multiplication – Round 2

Directions: Determine the product of the integers, and write it in the column to the right.

1.	$-9 \bullet -7$	
2.	$0 \bullet -4$	
3.	$3 \bullet -5$	
4.	$6 \bullet -8$	
5.	$-2 \bullet 1$	
6.	$-6 \bullet 5$	
7.	$-10 \bullet -12$	
8.	$11 \bullet -4$	
9.	$3 \bullet 8$	
10.	$12 \bullet -7$	
11.	$-1 \bullet 8$	
12.	$5 \bullet -10$	
13.	$3 \bullet -13$	
14.	$15 \bullet -8$	
15.	$-9 \bullet 14$	
16.	$-17 \bullet 5$	
17.	$16 \bullet 2$	
18.	$19 \bullet -7$	
19.	$-6 \bullet 13$	
20.	$1 \bullet -18$	
21.	$-14 \bullet -3$	
22.	$-10 \bullet -17$	

23.	$-22 \bullet 14$	
24.	$-18 \bullet -32$	
25.	$-24 \bullet 19$	
26.	$47 \bullet 21$	
27.	$17 \bullet -39$	
28.	$-16 \bullet -28$	
29.	$-67 \bullet -81$	
30.	$-36 \bullet 44$	
31.	$-50 \bullet 23$	
32.	$66 \bullet -71$	
33.	$82 \bullet -29$	
34.	$-32 \bullet 231$	
35.	$89 \bullet -744$	
36.	$623 \bullet -22$	
37.	$-870 \bullet -46$	
38.	$179 \bullet 329$	
39.	$-956 \bullet 723$	
40.	$874 \bullet -333$	
41.	$908 \bullet -471$	
42.	$-661 \bullet -403$	
43.	$-520 \bullet -614$	
44.	$-309 \bullet 911$	

Number Correct: _____

Integer Division – Round 1

Directions: Determine the quotient of the integers, and write it in the column to the right.

1.	$4 \div 1$	
2.	$4 \div (-1)$	
3.	$-4 \div (-1)$	
4.	$-4 \div 1$	
5.	$6 \div 2$	
6.	$-6 \div (-2)$	
7.	$-6 \div 2$	
8.	$6 \div -2$	
9.	$8 \div (-4)$	
10.	$-8 \div (-4)$	
11.	$-8 \div 4$	
12.	$8 \div 4$	
13.	$9 \div (-3)$	
14.	$-9 \div 3$	
15.	$-10 \div 5$	
16.	$10 \div (-2)$	
17.	$-10 \div (-2)$	
18.	$-10 \div (-5)$	
19.	$-14 \div 7$	
20.	$14 \div (-2)$	
21.	$-14 \div (-2)$	
22.	$-14 \div (-7)$	

23.	$-16 \div (-4)$	
24.	$16 \div (-2)$	
25.	$-16 \div 4$	
26.	$-20 \div 4$	
27.	$-20 \div (-4)$	
28.	$-28 \div 4$	
29.	$28 \div (-7)$	
30.	$-28 \div (-7)$	
31.	$-40 \div (-5)$	
32.	$56 \div (-7)$	
33.	$96 \div (-3)$	
34.	$-121 \div (-11)$	
35.	$169 \div (-13)$	
36.	$-175 \div 25$	
37.	$1 \div 4$	
38.	$-1 \div 4$	
39.	$-1 \div (-4)$	
40.	$-3 \div (-4)$	
41.	$-5 \div 20$	
42.	$6 \div (-18)$	
43.	$-24 \div 48$	
44.	$-16 \div 64$	

Number Correct: _____

Improvement: _____

Integer Division ~ Round 2

Directions: Determine the quotient of the integers, and write it in the column to the right.

1.	$5 \div 1$	
2.	$5 \div (-1)$	
3.	$-5 \div (-1)$	
4.	$-5 \div 1$	
5.	$6 \div 3$	
6.	$-6 \div (-3)$	
7.	$-6 \div 3$	
8.	$6 \div -3$	
9.	$8 \div (-2)$	
10.	$-8 \div (-2)$	
11.	$-8 \div 2$	
12.	$8 \div 2$	
13.	$-9 \div (-3)$	
14.	$9 \div 3$	
15.	$-12 \div 6$	
16.	$12 \div (-2)$	
17.	$-12 \div (-2)$	
18.	$-12 \div (-6)$	
19.	$-16 \div 8$	
20.	$16 \div (-2)$	
21.	$-16 \div (-2)$	
22.	$-16 \div (-8)$	

23.	$-18 \div (-9)$	
24.	$18 \div (-2)$	
25.	$-18 \div 9$	
26.	$-24 \div 4$	
27.	$-24 \div (-4)$	
28.	$-24 \div 6$	
29.	$30 \div (-6)$	
30.	$-30 \div (-5)$	
31.	$-48 \div (-6)$	
32.	$64 \div (-4)$	
33.	$105 \div (-7)$	
34.	$-144 \div (-12)$	
35.	$196 \div (-14)$	
36.	$-225 \div 25$	
37.	$2 \div 4$	
38.	$-2 \div 4$	
39.	$-2 \div (-4)$	
40.	$-4 \div (-8)$	
41.	$-5 \div 40$	
42.	$6 \div (-42)$	
43.	$-25 \div 75$	
44.	$-18 \div 108$	

Number Correct: _____

Generating Equivalent Expressions—Round 1

Directions: Write each as an equivalent expression in standard form as quickly and accurately as possible within the allotted time.

1.	$1 + 1$	
2.	$1 + 1 + 1$	
3.	$(1 + 1) + 1$	
4.	$(1 + 1) + (1 + 1)$	
5.	$(1 + 1) + (1 + 1 + 1)$	
6.	$x + x$	
7.	$x + x + x$	
8.	$(x + x) + x$	
9.	$(x + x) + (x + x)$	
10.	$(x + x) + (x + x + x)$	
11.	$(x + x + x) + (x + x + x)$	
12.	$2x + x$	
13.	$3x + x$	
14.	$4x + x$	
15.	$7x + x$	
16.	$7x + 2x$	
17.	$7x + 3x$	
18.	$10x - x$	
19.	$10x - 5x$	
20.	$10x - 10x$	
21.	$10x - 11x$	
22.	$10x - 12x$	

23.	$4x + 6x - 12x$	
24.	$4x - 6x + 4x$	
25.	$7x - 2x + 3$	
26.	$(4x + 3) + x$	
27.	$(4x + 3) + 2x$	
28.	$(4x + 3) + 3x$	
29.	$(4x + 3) + 5x$	
30.	$(4x + 3) + 6x$	
31.	$(11x + 2) - 2$	
32.	$(11x + 2) - 3$	
33.	$(11x + 2) - 4$	
34.	$(11x + 2) - 7$	
35.	$(3x - 9) + (3x + 5)$	
36.	$(11 - 5x) + (4x + 2)$	
37.	$(2x + 3y) + (4x + y)$	
38.	$(5x + 1.3y) + (2.9x - 0.6y)$	
39.	$(2.6x - 4.8y) + (6.5x - 1.1y)$	
40.	$\left(\frac{3}{4}x - \frac{1}{2}y\right) + \left(-\frac{7}{4}x - \frac{5}{2}y\right)$	
41.	$\left(-\frac{2}{5}x - \frac{7}{9}y\right) + \left(-\frac{7}{10}x - \frac{2}{3}y\right)$	
42.	$\left(\frac{1}{2}x - \frac{1}{4}y\right) + \left(-\frac{3}{5}x + \frac{5}{6}y\right)$	
43.	$\left(1.2x - \frac{3}{4}y\right) - \left(-\frac{3}{5}x + 2.25x\right)$	
44.	$(3.375x - 8.9y) - \left(-7\frac{5}{8}x - 5\frac{2}{5}y\right)$	

Number Correct: _____

Improvement: _____

Generating Equivalent Expressions—Round 2

Directions: Write each as an equivalent expression in standard form as quickly and accurately as possible within the allotted time.

1.	$1 + 1 + 1$	
2.	$1 + 1 + 1 + 1$	
3.	$(1 + 1 + 1) + 1$	
4.	$(1 + 1 + 1) + (1 + 1)$	
5.	$(1 + 1 + 1) + (1 + 1 + 1)$	
6.	$x + x + x$	
7.	$x + x + x + x$	
8.	$(x + x + x) + x$	
9.	$(x + x + x) + (x + x)$	
10.	$(x + x + x) + (x + x + x)$	
11.	$(x + x + x + x) + (x + x)$	
12.	$x + 2x$	
13.	$x + 4x$	
14.	$x + 6x$	
15.	$x + 8x$	
16.	$7x + x$	
17.	$8x + 2x$	
18.	$2x - x$	
19.	$2x - 2x$	
20.	$2x - 3x$	
21.	$2x - 4x$	
22.	$2x - 8x$	

23.	$3x + 5x - 4x$	
24.	$8x - 6x + 4x$	
25.	$7x - 4x + 5$	
26.	$(9x - 1) + x$	
27.	$(9x - 1) + 2x$	
28.	$(9x - 1) + 3x$	
29.	$(9x - 1) + 5x$	
30.	$(9x - 1) + 6x$	
31.	$(-3x + 3) - 2$	
32.	$(-3x + 3) - 3$	
33.	$(-3x + 3) - 4$	
34.	$(-3x + 3) - 5$	
35.	$(5x - 2) + (2x + 5)$	
36.	$(8 - x) + (3x + 2)$	
37.	$(5x + y) + (x + y)$	
38.	$\left(\frac{5}{2}x + \frac{3}{2}y\right) + \left(\frac{11}{2}x - \frac{3}{4}y\right)$	
39.	$\left(\frac{1}{6}x - \frac{3}{8}y\right) + \left(\frac{2}{3}x - \frac{7}{4}y\right)$	
40.	$(9.7x - 3.8y) + (-2.8x + 4.5y)$	
41.	$(1.65x - 2.73y) + (-1.35x + 3.76y)$	
42.	$(6.51x - 4.39y) + (-7.46x + 8.11x)$	
43.	$\left(0.7x - \frac{2}{9}y\right) - \left(-\frac{7}{5}x + 2\frac{1}{3}x\right)$	
44.	$(8.4x - 2.25y) - \left(-2\frac{1}{2}x - 4\frac{3}{8}y\right)$	

Number Correct: _____

Equations—Round 1

Directions: Write the solution for each equation as quickly and accurately as possible within the allotted time.

1.	$x + 1 = 5$	
2.	$x + 2 = 5$	
3.	$x + 3 = 5$	
4.	$x + 4 = 5$	
5.	$x + 5 = 5$	
6.	$x + 6 = 5$	
7.	$x + 7 = 5$	
8.	$x - 5 = 2$	
9.	$x - 5 = 4$	
10.	$x - 5 = 6$	
11.	$x - 5 = 8$	
12.	$x - 5 = 10$	
13.	$3x = 15$	
14.	$3x = 12$	
15.	$3x = 6$	
16.	$3x = 0$	
17.	$3x = -3$	
18.	$-9x = 18$	
19.	$-6x = 18$	
20.	$-3x = 18$	
21.	$-1x = 18$	
22.	$3x = -18$	

23.	$\frac{1}{7}x = 5$	
24.	$\frac{2}{7}x = 10$	
25.	$\frac{3}{7}x = 15$	
26.	$\frac{4}{7}x = 20$	
27.	$-\frac{5}{7}x = -25$	
28.	$2x + 4 = 12$	
29.	$2x + 5 = 13$	
30.	$2x + 6 = 14$	
31.	$3x + 6 = 18$	
32.	$4x + 6 = 22$	
33.	$-x - 3 = -10$	
34.	$-x - 3 = -8$	
35.	$-x - 3 = -6$	
36.	$-x - 3 = -4$	
37.	$-x - 3 = -2$	
38.	$-x - 3 = 0$	
39.	$2(x + 3) = 4$	
40.	$3(x + 3) = 6$	
41.	$5(x + 3) = 10$	
42.	$5(x - 3) = 10$	
43.	$-2(x - 3) = 8$	
44.	$-3(x + 4) = 3$	

Number Correct: _____

Improvement: _____

Equations—Round 2

Directions: Write the solution for each equation as quickly and accurately as possible within the allotted time.

1.	$x + 7 = 9$	
2.	$x + 6 = 9$	
3.	$x + 5 = 9$	
4.	$x + 4 = 9$	
5.	$x + 3 = 9$	
6.	$x + 2 = 9$	
7.	$x + 1 = 9$	
8.	$x - 8 = 2$	
9.	$x - 8 = 4$	
10.	$x - 8 = 6$	
11.	$x - 8 = 8$	
12.	$x - 10 = 10$	
13.	$4x = 12$	
14.	$4x = 8$	
15.	$4x = 4$	
16.	$4x = 0$	
17.	$4x = -4$	
18.	$-8x = 24$	
19.	$-6x = 24$	
20.	$-3x = 24$	
21.	$-2x = 24$	
22.	$6x = -24$	

23.	$\frac{1}{5}x = 10$	
24.	$\frac{2}{5}x = 20$	
25.	$\frac{3}{5}x = 30$	
26.	$\frac{4}{5}x = 40$	
27.	$\frac{5}{5}x = 50$	
28.	$3x + 2 = 14$	
29.	$3x + 3 = 15$	
30.	$3x + 4 = 16$	
31.	$2x + 4 = 12$	
32.	$x + 4 = 8$	
33.	$-2x - 1 = 0$	
34.	$-2x - 1 = 2$	
35.	$-2x - 1 = 4$	
36.	$-2x - 1 = 6$	
37.	$-2x - 1 = 7$	
38.	$-2x - 1 = 8$	
39.	$3(x + 2) = 9$	
40.	$4(x + 2) = 12$	
41.	$5(x + 2) = 15$	
42.	$5(x - 2) = -5$	
43.	$-3(2x - 1) = -9$	
44.	$-5(4x + 1) = 15$	

Number Correct: _____

Inequalities—Round 1

Directions: Write the solution of each inequality.

1.	$x + 1 > 8$	
2.	$x + 2 > 8$	
3.	$x + 3 > 8$	
4.	$x + 4 > 8$	
5.	$x - 1 > 3$	
6.	$x - 2 > 3$	
7.	$x - 3 > 3$	
8.	$x - 4 > 3$	
9.	$3x > 15$	
10.	$3x > 18$	
11.	$3x > 21$	
12.	$3x > 24$	
13.	$-x > 4$	
14.	$-x > 5$	
15.	$-x > 6$	
16.	$-x < -4$	
17.	$-x < -5$	
18.	$-x < -6$	
19.	$\frac{1}{2}x > 1$	
20.	$\frac{1}{2}x > 2$	
21.	$\frac{1}{2}x > 3$	
22.	$\frac{1}{2}x > 4$	

23.	$-\frac{1}{5}x > 2$	
24.	$-\frac{2}{5}x > 2$	
25.	$-\frac{3}{5}x > 3$	
26.	$-\frac{4}{5}x > 4$	
27.	$2x + 4 > 8$	
28.	$2x + 5 > 9$	
29.	$2x + 6 > 10$	
30.	$2x - 1 < 5$	
31.	$2x - 3 < 5$	
32.	$2x - 5 < 5$	
33.	$-2x + 1 > 7$	
34.	$-2x + 2 > -8$	
35.	$-2x + 3 > 9$	
36.	$-3x + 1 > -8$	
37.	$-3x + 1 > 10$	
38.	$-3x + 1 > 13$	
39.	$2(x + 3) > 4$	
40.	$3(x + 3) < 6$	
41.	$4(x + 3) > 8$	
42.	$-5(x - 3) < -10$	
43.	$-2(x - 3) > 8$	
44.	$-2(x + 3) < 8$	

Number Correct: _____

Improvement: _____

Inequalities—Round 2

Directions: Write the solution of each inequality.

1.	$x + 6 < 9$	
2.	$x + 5 < 9$	
3.	$x + 4 < 9$	
4.	$x + 3 < 9$	
5.	$x - 3 < 5$	
6.	$x - 4 < 5$	
7.	$x - 5 < 5$	
8.	$x - 6 < 5$	
9.	$4x < 20$	
10.	$4x < 16$	
11.	$4x < 12$	
12.	$4x < 8$	
13.	$-x < 6$	
14.	$-x < 5$	
15.	$-x < 4$	
16.	$-x < -8$	
17.	$-x < -7$	
18.	$-x < -6$	
19.	$\frac{1}{5}x < 1$	
20.	$\frac{1}{5}x < 2$	
21.	$\frac{1}{5}x < 3$	
22.	$\frac{1}{5}x < 4$	

23.	$-\frac{1}{6}x < 2$	
24.	$-\frac{2}{6}x < 2$	
25.	$-\frac{3}{6}x < 3$	
26.	$-\frac{4}{6}x < 4$	
27.	$3x + 3 < 6$	
28.	$3x + 4 < 7$	
29.	$3x + 5 < 8$	
30.	$3x - 1 > 5$	
31.	$3x - 4 > 5$	
32.	$3x - 7 > 5$	
33.	$l - 3x + 1 < 7$	
34.	$-3x + 2 < -7$	
35.	$-3x + 3 < 9$	
36.	$-4x + 1 < -11$	
37.	$-4x + 1 < -7$	
38.	$-4x + 1 < -3$	
39.	$3(x + 2) < 9$	
40.	$4(x + 2) < 12$	
41.	$5(x + 2) > 15$	
42.	$-2(x + 1) < 4$	
43.	$-3(2x - 1) < -9$	
44.	$-5(4x + 1) < 15$	

Fractions, Decimals, and Percents—Round 1

Number Correct: _____

Directions: Write each number in the alternate form indicated.

1.	$\frac{20}{100}$ as a percent	
2.	$\frac{40}{100}$ as a percent	
3.	$\frac{80}{100}$ as a percent	
4.	$\frac{85}{100}$ as a percent	
5.	$\frac{95}{100}$ as a percent	
6.	$\frac{100}{100}$ as a percent	
7.	$\frac{10}{10}$ as a percent	
8.	$\frac{1}{1}$ as a percent	
9.	$\frac{1}{10}$ as a percent	
10.	$\frac{2}{10}$ as a percent	
11.	$\frac{4}{10}$ as a percent	
12.	75% as a decimal	
13.	25% as a decimal	
14.	15% as a decimal	
15.	10% as a decimal	
16.	5% as a decimal	
17.	30% as a fraction	
18.	60% as a fraction	
19.	90% as a fraction	
20.	50% as a fraction	
21.	25% as a fraction	
22.	20% as a fraction	

23.	$\frac{9}{10}$ as a percent	
24.	$\frac{9}{20}$ as a percent	
25.	$\frac{9}{25}$ as a percent	
26.	$\frac{9}{50}$ as a percent	
27.	$\frac{9}{75}$ as a percent	
28.	$\frac{18}{75}$ as a percent	
29.	$\frac{36}{75}$ as a percent	
30.	96% as a fraction	
31.	92% as a fraction	
32.	88% as a fraction	
33.	44% as a fraction	
34.	22% as a fraction	
35.	3% as a decimal	
36.	30% as a decimal	
37.	33% as a decimal	
38.	33.3% as a decimal	
39.	3.3% as a decimal	
40.	0.3% as a decimal	
41.	$\frac{1}{3}$ as a percent	
42.	$\frac{1}{9}$ as a percent	
43.	$\frac{2}{9}$ as a percent	
44.	$\frac{8}{9}$ as a percent	

Fractions, Decimals, and Percents—Round 2

Number Correct: _____

Directions: Write each number in the alternate form indicated.

Improvement: _____

1.	$\frac{30}{100}$ as a percent	
2.	$\frac{60}{100}$ as a percent	
3.	$\frac{70}{100}$ as a percent	
4.	$\frac{75}{100}$ as a percent	
5.	$\frac{90}{100}$ as a percent	
6.	$\frac{50}{100}$ as a percent	
7.	$\frac{5}{10}$ as a percent	
8.	$\frac{1}{2}$ as a percent	
9.	$\frac{1}{4}$ as a percent	
10.	$\frac{1}{8}$ as a percent	
11.	$\frac{3}{8}$ as a percent	
12.	60% as a decimal	
13.	45% as a decimal	
14.	30% as a decimal	
15.	6% as a decimal	
16.	3% as a decimal	
17.	3% as a fraction	
18.	6% as a fraction	
19.	60% as a fraction	
20.	30% as a fraction	
21.	45% as a fraction	
22.	15% as a fraction	

23.	$\frac{6}{10}$ as a percent	
24.	$\frac{6}{20}$ as a percent	
25.	$\frac{6}{25}$ as a percent	
26.	$\frac{6}{50}$ as a percent	
27.	$\frac{6}{75}$ as a percent	
28.	$\frac{12}{75}$ as a percent	
29.	$\frac{24}{75}$ as a percent	
30.	64% as a fraction	
31.	60% as a fraction	
32.	56% as a fraction	
33.	28% as a fraction	
34.	14% as a fraction	
35.	9% as a decimal	
36.	90% as a decimal	
37.	99% as a decimal	
38.	99.9% as a decimal	
39.	9.9% as a decimal	
40.	0.9% as a decimal	
41.	$\frac{4}{9}$ as a percent	
42.	$\frac{5}{9}$ as a percent	
43.	$\frac{2}{3}$ as a percent	
44.	$\frac{1}{6}$ as a percent	

Part, Whole, or Percent—Round 1

Number Correct: _____

Directions: Find each missing value.

1.	1% of 100 is?	
2.	2% of 100 is?	
3.	3% of 100 is?	
4.	4% of 100 is?	
5.	5% of 100 is?	
6.	9% of 100 is?	
7.	10% of 100 is?	
8.	10% of 200 is?	
9.	10% of 300 is?	
10.	10% of 500 is?	
11.	10% of 550 is?	
12.	10% of 570 is?	
13.	10% of 470 is?	
14.	10% of 170 is?	
15.	10% of 70 is?	
16.	10% of 40 is?	
17.	10% of 20 is?	
18.	10% of 25 is?	
19.	10% of 35 is?	
20.	10% of 36 is?	
21.	10% of 37 is?	
22.	10% of 37.5 is?	

23.	10% of 22 is?	
24.	20% of 22 is?	
25.	30% of 22 is?	
26.	50% of 22 is?	
27.	25% of 22 is?	
28.	75% of 22 is?	
29.	80% of 22 is?	
30.	85% of 22 is?	
31.	90% of 22 is?	
32.	95% of 22 is?	
33.	5% of 22 is?	
34.	15% of 80 is?	
35.	15% of 60 is?	
36.	15% of 40 is?	
37.	30% of 40 is?	
38.	30% of 70 is?	
39.	30% of 60 is?	
40.	45% of 80 is?	
41.	45% of 120 is?	
42.	120% of 40 is?	
43.	120% of 50 is?	
44.	120% of 55 is?	

Part, Whole, or Percent—Round 2

Directions: Find each missing value.

Number Correct: _____

Improvement: _____

1.	20% of 100 is?	
2.	21% of 100 is?	
3.	22% of 100 is?	
4.	23% of 100 is?	
5.	25% of 100 is?	
6.	25% of 200 is?	
7.	25% of 300 is?	
8.	25% of 400 is?	
9.	25% of 4000 is?	
10.	50% of 4000 is?	
11.	10% of 4000 is?	
12.	10% of 4700 is?	
13.	10% of 4600 is?	
14.	10% of 4630 is?	
15.	10% of 463 is?	
16.	10% of 46.3 is?	
17.	10% of 18 is?	
18.	10% of 24 is?	
19.	10% of 3.63 is?	
20.	10% of 0.336 is?	
21.	10% of 37 is?	
22.	10% of 37.5 is?	

23.	10% of 4 is?	
24.	20% of 4 is?	
25.	30% of 4 is?	
26.	50% of 4 is?	
27.	25% of 4 is?	
28.	75% of 4 is?	
29.	80% of 4 is?	
30.	85% of 4 is?	
31.	90% of 4 is?	
32.	95% of 4 is?	
33.	5% of 4 is?	
34.	15% of 40 is?	
35.	15% of 30 is?	
36.	15% of 20 is?	
37.	30% of 20 is?	
38.	30% of 50 is?	
39.	30% of 90 is?	
40.	45% of 90 is?	
41.	90% of 120 is?	
42.	125% of 40 is?	
43.	125% of 50 is?	
44.	120% of 60 is?	

Percent More or Less—Round 1

Number Correct: _____

Directions: Find each missing value.

1.	100% of 10 is ___?	
2.	10% of 10 is ___?	
3.	10% more than 10 is ___?	
4.	11 is ___ % more than 10?	
5.	11 is ___% of 10?	
6.	11 is 10% more than ___?	
7.	110% of 10 is ___?	
8.	10% less than 10 is ___?	
9.	9 is ___% less than 10?	
10.	9 is ___% of 10?	
11.	9 is 10% less than ___?	
12.	10% of 50 is ___?	
13.	10% more than 50 is ___?	
14.	55 is ___% of 50?	
15.	55 is ___% more than 50?	
16.	55 is 10% more than ___?	
17.	110% of 50 is ___?	
18.	10% less than 50 is ___?	
19.	45 is ___% of 50?	
20.	45 is ___% less than 50?	
21.	45 is 10% less than ___?	
22.	40 is ___% less than 50?	

23.	15% of 80 is ___?	
24.	15% more than 80 is ___?	
25.	What is 115% of 80?	
26.	92 is 115% of ___?	
27.	92 is ___% more than 80?	
28.	115% of 80 is ___?	
29.	What is 15% less than 80?	
30.	What % of 80 is 68?	
31.	What % less than 80 is 68?	
32.	What % less than 80 is 56?	
33.	What % of 80 is 56?	
34.	What is 20% more than 50?	
35.	What is 30% more than 50?	
36.	What is 140% of 50?	
37.	What % of 50 is 85?	
38.	What % more than 50 is 85?	
39.	What % less than 50 is 35?	
40.	What % of 50 is 35?	
41.	1 is what % of 50?	
42.	6 is what % of 50?	
43.	24% of 50 is?	
44.	24% more than 50 is?	

Percent More or Less—Round 2

Directions: Find each missing value.

Number Correct: _____

Improvement: _____

1.	100% of 20 is ___?	
2.	10% of 20 is ___?	
3.	10% more than 20 is ___?	
4.	22 is ___ % more than 20?	
5.	22 is ___% of 20?	
6.	22 is 10% more than ___?	
7.	110% of 20 is ___?	
8.	10% less than 20 is ___?	
9.	18 is ___% less than 20?	
10.	18 is ___% of 20?	
11.	18 is 10% less than ___?	
12.	10% of 200 is ___?	
13.	10% more than 200 is ___?	
14.	220 is ___% of 200?	
15.	220 is ___% more than 200?	
16.	220 is 10% more than ___?	
17.	110% of 200 is ___?	
18.	10% less than 200 is ___?	
19.	180 is ___% of 200?	
20.	180 is ___% less than 200?	
21.	180 is 10% less than ___?	
22.	160 is ___% less than 200?	

23.	15% of 60 is ___?	
24.	15% more than 60 is ___?	
25.	What is 115% of 60?	
26.	69 is 115% of ___?	
27.	69 is ___% more than 60?	
28.	115% of 60 is ___?	
29.	What is 15% less than 60?	
30.	What % of 60 is 51?	
31.	What % less than 60 is 51?	
32.	What % less than 60 is 42?	
33.	What % of 60 is 42?	
34.	What is 20% more than 80?	
35.	What is 30% more than 80?	
36.	What is 140% of 80?	
37.	What % of 80 is 104?	
38.	What % more than 80 is 104?	
39.	What % less than 80 is 56?	
40.	What % of 80 is 56?	
41.	1 is what % of 200?	
42.	6 is what % of 200?	
43.	24% of 200 is?	
44.	24% more than 200 is?	

Fractional Percents—Round 1

Number Correct: _____

Directions: Find the part that corresponds with each percent.

1.	1% of 100	
2.	1% of 200	
3.	1% of 400	
4.	1% of 800	
5.	1% of 1,600	
6.	1% of 3,200	
7.	1% of 5,000	
8.	1% of 10,000	
9.	1% of 20,000	
10.	1% of 40,000	
11.	1% of 80,000	
12.	$\frac{1}{2}$ % of 100	
13.	$\frac{1}{2}$ % of 200	
14.	$\frac{1}{2}$ % of 400	
15.	$\frac{1}{2}$ % of 800	
16.	$\frac{1}{2}$ % of 1,600	
17.	$\frac{1}{2}$ % of 3,200	
18.	$\frac{1}{2}$ % of 5,000	
19.	$\frac{1}{2}$ % of 10,000	
20.	$\frac{1}{2}$ % of 20,000	
21.	$\frac{1}{2}$ % of 40,000	
22.	$\frac{1}{2}$ % of 80,000	

23.	$\frac{1}{4}$ % of 100	
24.	$\frac{1}{4}$ % of 200	
25.	$\frac{1}{4}$ % of 400	
26.	$\frac{1}{4}$ % of 800	
27.	$\frac{1}{4}$ % of 1,600	
28.	$\frac{1}{4}$ % of 3,200	
29.	$\frac{1}{4}$ % of 5,000	
30.	$\frac{1}{4}$ % of 10,000	
31.	$\frac{1}{4}$ % of 20,000	
32.	$\frac{1}{4}$ % of 40,000	
33.	$\frac{1}{4}$ % of 80,000	
34.	1% of 1,000	
35.	$\frac{1}{2}$ % of 1,000	
36.	$\frac{1}{4}$ % of 1,000	
37.	1% of 4,000	
38.	$\frac{1}{2}$ % of 4,000	
39.	$\frac{1}{4}$ % of 4,000	
40.	1% of 2,000	
41.	$\frac{1}{2}$ % of 2,000	
42.	$\frac{1}{4}$ % of 2,000	
43.	$\frac{1}{2}$ % of 6,000	
44.	$\frac{1}{4}$ % of 6,000	

Fractional Percents—Round 2

Number Correct: _____

Directions: Find the part that corresponds with each percent.

Improvement: _____

1.	10% of 30	
2.	10% of 60	
3.	10% of 90	
4.	10% of 120	
5.	10% of 150	
6.	10% of 180	
7.	10% of 210	
8.	20% of 30	
9.	20% of 60	
10.	20% of 90	
11.	20% of 120	
12.	5% of 50	
13.	5% of 100	
14.	5% of 200	
15.	5% of 400	
16.	5% of 800	
17.	5% of 1,600	
18.	5% of 3,200	
19.	5% of 6,400	
20.	5% of 600	
21.	10% of 600	
22.	20% of 600	

23.	$10\frac{1}{2}\%$ of 100	
24.	$10\frac{1}{2}\%$ of 200	
25.	$10\frac{1}{2}\%$ of 400	
26.	$10\frac{1}{2}\%$ of 800	
27.	$10\frac{1}{2}\%$ of 1,600	
28.	$10\frac{1}{2}\%$ of 3,200	
29.	$10\frac{1}{2}\%$ of 6,400	
30.	$10\frac{1}{4}\%$ of 400	
31.	$10\frac{1}{4}\%$ of 800	
32.	$10\frac{1}{4}\%$ of 1,600	
33.	$10\frac{1}{4}\%$ of 3,200	
34.	10% of 1,000	
35.	$10\frac{1}{2}\%$ of 1,000	
36.	$10\frac{1}{4}\%$ of 1,000	
37.	10% of 2,000	
38.	$10\frac{1}{2}\%$ of 2,000	
39.	$10\frac{1}{4}\%$ of 2,000	
40.	10% of 4,000	
41.	$10\frac{1}{2}\%$ of 4,000	
42.	$10\frac{1}{4}\%$ of 4,000	
43.	10% of 5,000	
44.	$10\frac{1}{2}\%$ of 5,000	